CLAIMS

WE CLAIM:

1. In a wireless communication system adapted for packet data
2 transmissions, the system having at least one mobile station with pending data
at a transmitter, a method comprising:
4   calculating a packet delay time for a first receiver of the at least one
    mobile station with pending data;
6   comparing the packet delay time to a first threshold;
   if the packet delay time violates the first threshold, calculating a first
8   delay term;
   calculating a priority function for the first receiver using the first delay
10   term; and
   scheduling transmissions to the receiver according to the priority
12   function.

2. The method of claim 1, wherein the packet delay time is calculated as:
2 $g(d)=k$ for packet delay time greater than the first threshold.

3. The method of claim 1, wherein the packet delay time is calculated as:
2 $g(d)=DRC_{MAX}/DRC_{AVE}$ for packet delay time greater than the first
   threshold, wherein DRC_{MAX} is a maximum of DRC values for
4   receivers in an active set of the transmitter, and wherein DRC_{AVE}
   is an average DRC value for the first receiver.

4. In a wireless communication system adapted for packet data
2 transmissions, a method comprising:
   identifying a user having a packet delay higher than a threshold; and
4   adjusting the priority of the user while the packet delay is higher than the
   threshold.